

# *FDOT Automated Quantities*



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# Objectives

- *Cover the workflow for developing and recording/managing quantities for FDOT projects using tools and resources in the FDOTSS4 workspace for MicroStation/GEOPAK or PowerGEOPAK.*
- *Explore and learn how to use the tools in the Quantity Workflow to develop Plan Summary Boxes and Summary of Quantity Sheets, get the data to Designer Interface, and create the Summary of Pay Items Sheet.*

## Hour 1:

- FDOT Standards/Resources
- Calculate Quantities with D&C Manager
- Export to Quantity Manager Database
- Label Areas
- Add Quantities in Quantity Manager

## Hour 2:

- Review Plan Summary Box Requirements
- Create Summary Boxes through Linked Data Manager
  - Automated
  - Non-Automated
- Generate Reports in Quantity Manager
- Get quantity information to AASHTOWare Project Preconstruction through Designer Interface
- Access Web Gate Reports to get Project Summary Reports for the Summary of Pay Items
- Create Summary of Pay Items Sheet

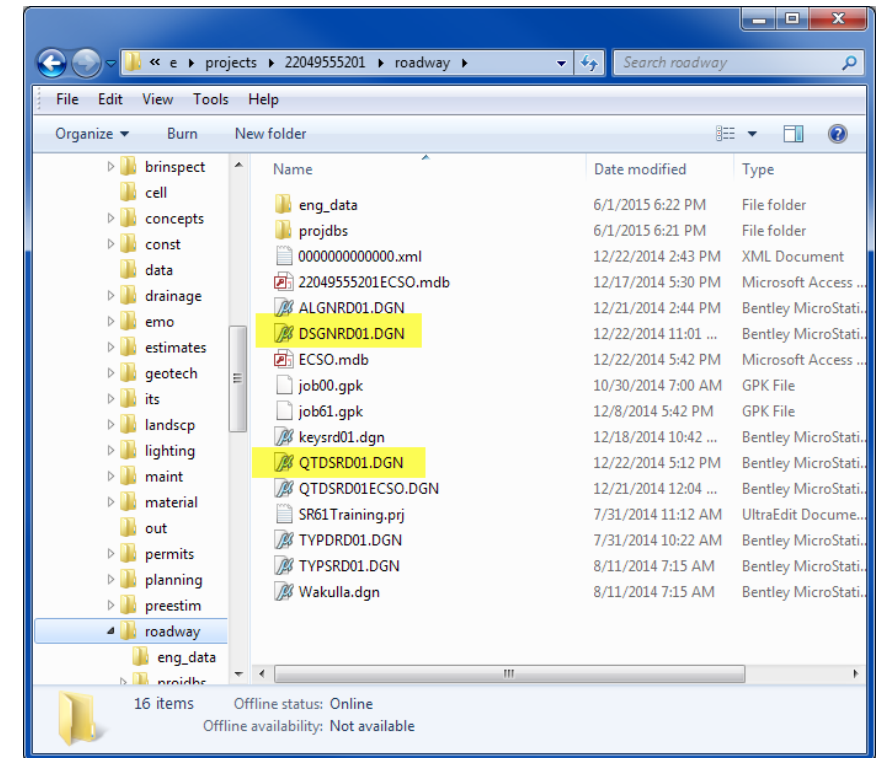
# *FDOT Standards*

- *Basis of Estimates Manual*
  - *Master Pay Item List*
  - *Pay Item Computation Methods*
  - *Chapter 8, Plan Summary Boxes*
- *Plans Preparation Manual*
- *CADD Manual*



# FDOT Standards

- *Files*
  - *DSGN\*\**
    - *Linear and Each items*
  - *QTDSRD\*\**
    - *Area/Tonnage/Cubic Yard items*
- *Quantity Design Files are to be located in the appropriate Discipline directory of the project. This also applies to the Quantity Manager \*.mdb file.*
- *Create with the Create File/Project tool to insure correct locations and seed files.*



# Linear/Each Features

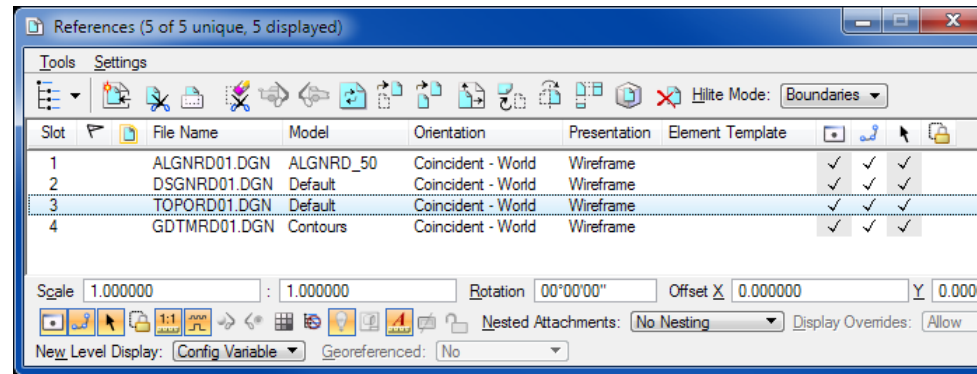
- *Most linear and each quantity features are included in the plan view and therefore drawn in the DSGN\*\* file.*
- *These elements can be drawn using:*
  - *D&C Manager in the Design mode*
  - *Using Civil Features*
    - *Many of the FDOT Features are set up to use "Native Style". This means that in the background it is using the D&C settings to define the element. With most of the Civil Tools, this will include the adhoc attributes.*
    - *CHECK the adhocs set on the elements*
      - *No ability to modify the default values when placing with Civil Tools. Do they need to be modified?*
        - Use the 3pc AdHoc Attribute tool to make changes
        - Or Set using the D&C Manager



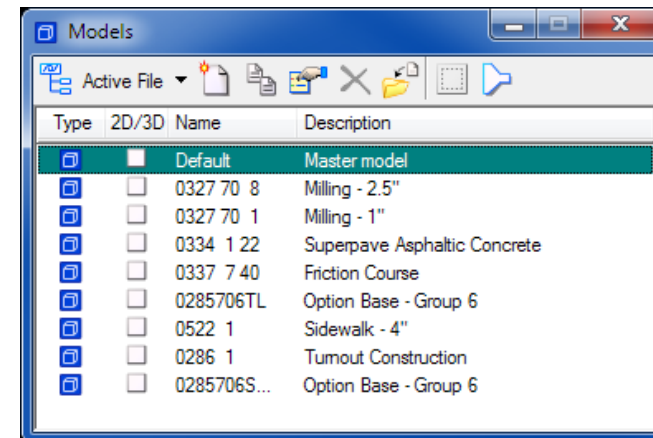
# Area Quantities

## QTDSRD\*\* Set Up

- **Recommended...**
  - *Setting up the Default model with all the reference files attached that may be needed for calculations.*

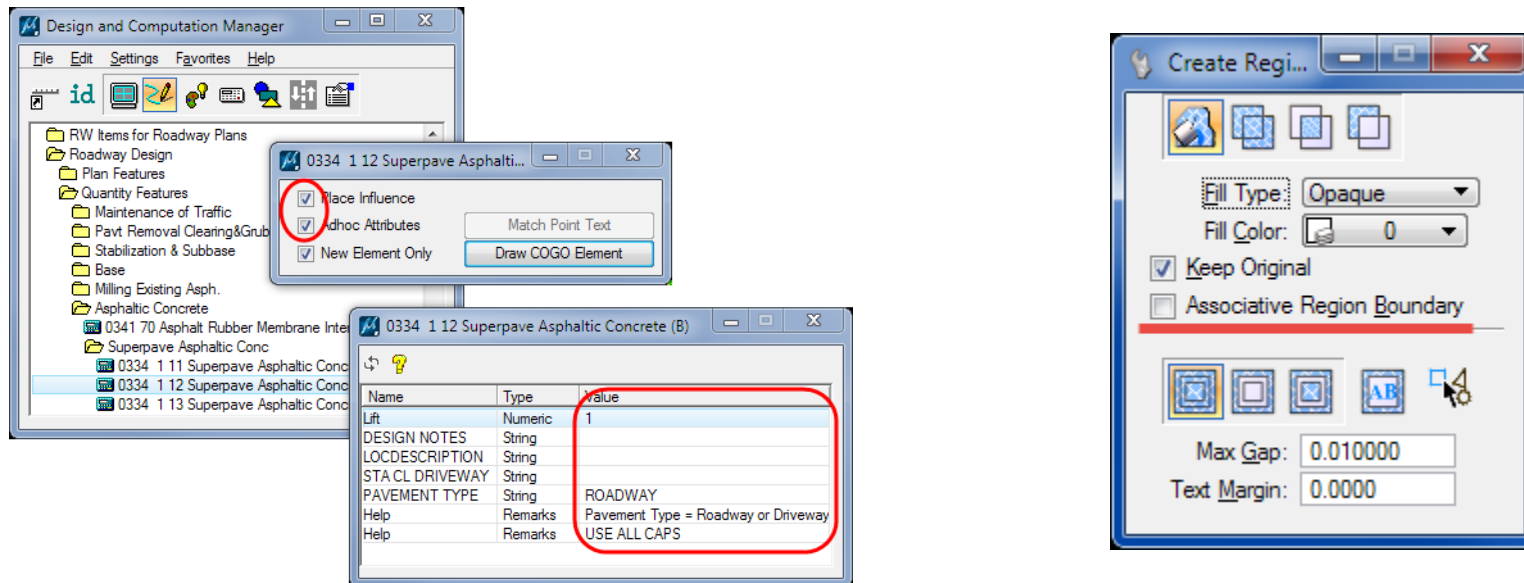


- *Copy the set up Default model to create the models for individual quantities/pay items.*



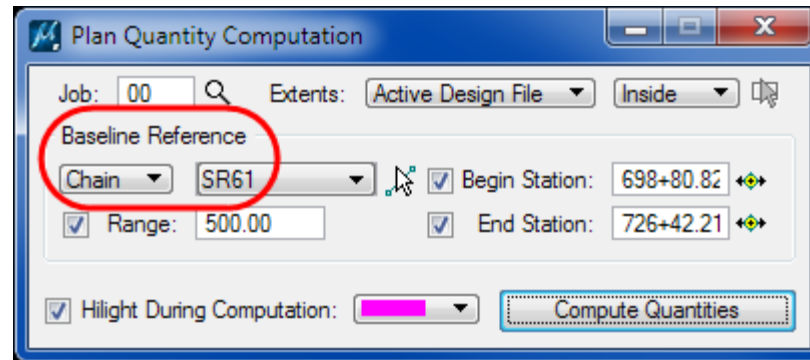
# Area Quantities

- *Recommend using the Create Region tool to create area shapes with Place Influence from the D&C Manager*
  - *D&C Manager Shape tool does NOT “play well” with Civil Elements.*
  - *Make sure to toggle off the setting for Associative Region Boundary. D&C will NOT recognize the shape if you toggle this option on!!!*
  - *Adjust the Adhoc Values before creating the shapes.*



# Calculate Quantities

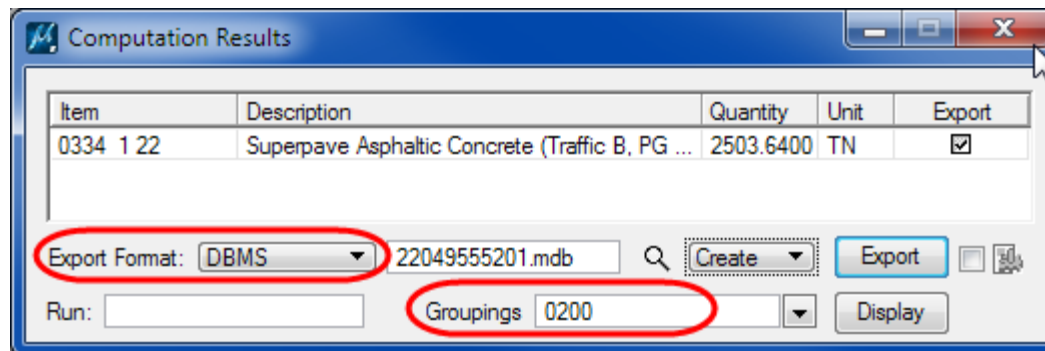
- Use the D&C Manager
- Can calculate by single item, Category or Collection Set
- Make sure to use the option for Chain
  - Automated quantities must have a station associated with the quantity for LDM to include in the summary box.





# Export Quantities

- *Computation Results dialog allows the option to Export the quantities in multiple formats*
  - *To export to Quantity Manager the Export Format needs to be set to DBMS*
  - *Make sure to modify the Groupings to the correct AASHTOWare Project Preconstruction category. (See BOE Chapter 9)*



Items are categorized by pay item range:

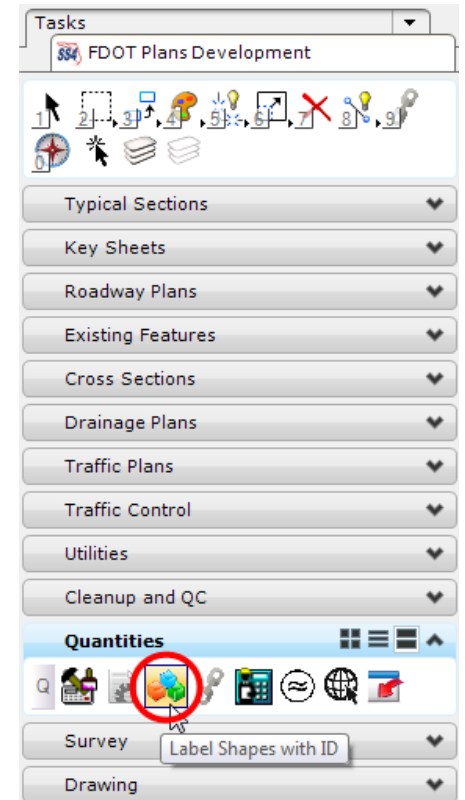
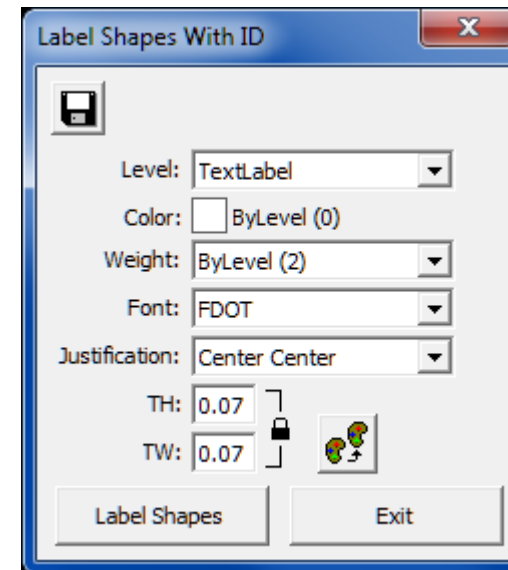
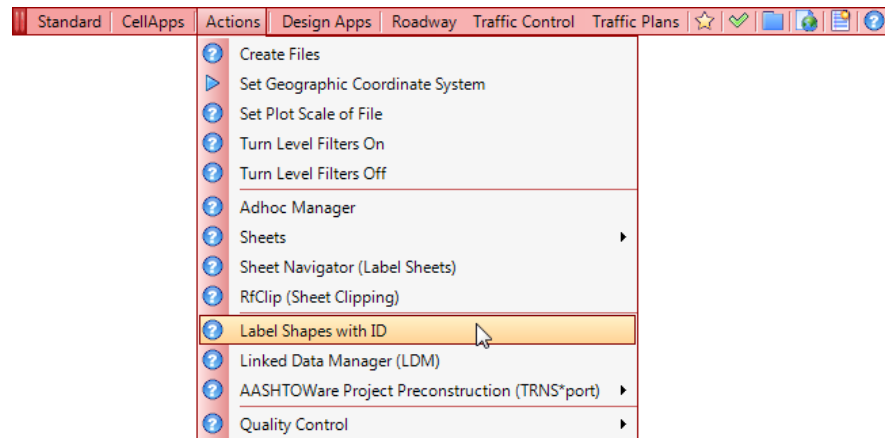
Item Numbers (Specification Sections)	SUBJECT/GROUP	TRNS*PORT Category Design Group/ Plans
100-102	MOT	0200 Roadway
103	Temporary Structures	
104	Erosion Control	
	Drainage Environmental	
106-108	Environmental	Coordinator
		Water/Erosion Control
		Air Quality
		Decontamination/Hazardous Materials
109	Field Office	
110-199	"Dirt" Earthwork	Roadway
		Erosion Control
		Topsoil/Vegetation
200-299	Base Courses	
300-399	Surface Courses, Concrete Pavement	
except 346-347	Concrete	0100 Structures or 0200 Roadway
400-499	Structures	0100 Structures
except 425-449	Drainage Structures	0200 Roadway
500-515	Incidental Construction- Structures	0100 Structures
516-559	Incidental Construction- Roadway Items	0200 Roadway
560-569	Incidental Construction- Structural Paint	0100 Structures
570-599	Incidental Construction- Turf & Landscaping	0200 Roadway or 0600 Landscaping
600-699	Traffic Control Devices (Signals)	0500 Signals
700-714	Traffic Control	0300 Signing
715	Traffic Control- Lighting	0400 Lighting
720-740	Incidental Construction- Other	0200 Roadway
741-749	Incidental Construction- Traffic Monitoring (TMS)	
750-770	Incidental Construction- Other	
780-789	Intelligent Transportation Systems (ITS)	0550 ITS
800-899	Mass Transit (Railroad)	0900 Mass Transit
1000-1999	Utilities	0100 Structures

NOTE: While pay item ranges are generally grouped by category, some items may be used in multiple categories. Refer to the specific items for details.



# Label Area ID's

- Labeling Area ID's is REQUIRED.
- Use the Label Shapes with ID VBA to label these areas
  - Found on the FDOT Plans Development > Quantities Task Menu
  - OR - on the FDOT Menu under Actions > Label Shapes with ID

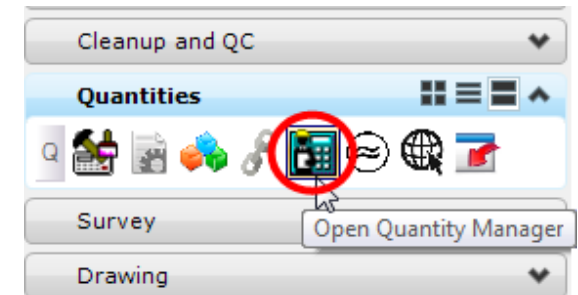
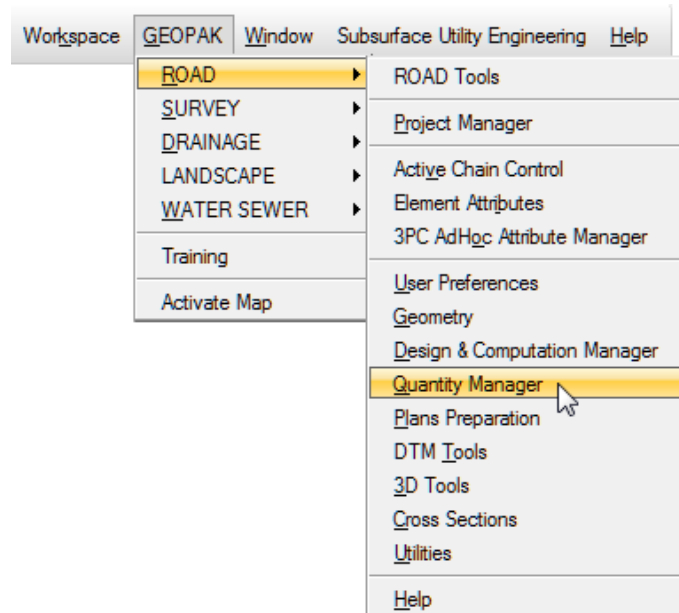
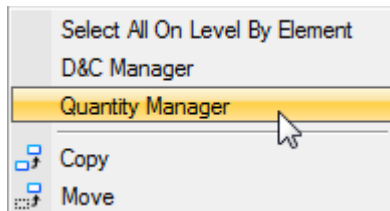


- Create a selection set & then click Label Shapes.



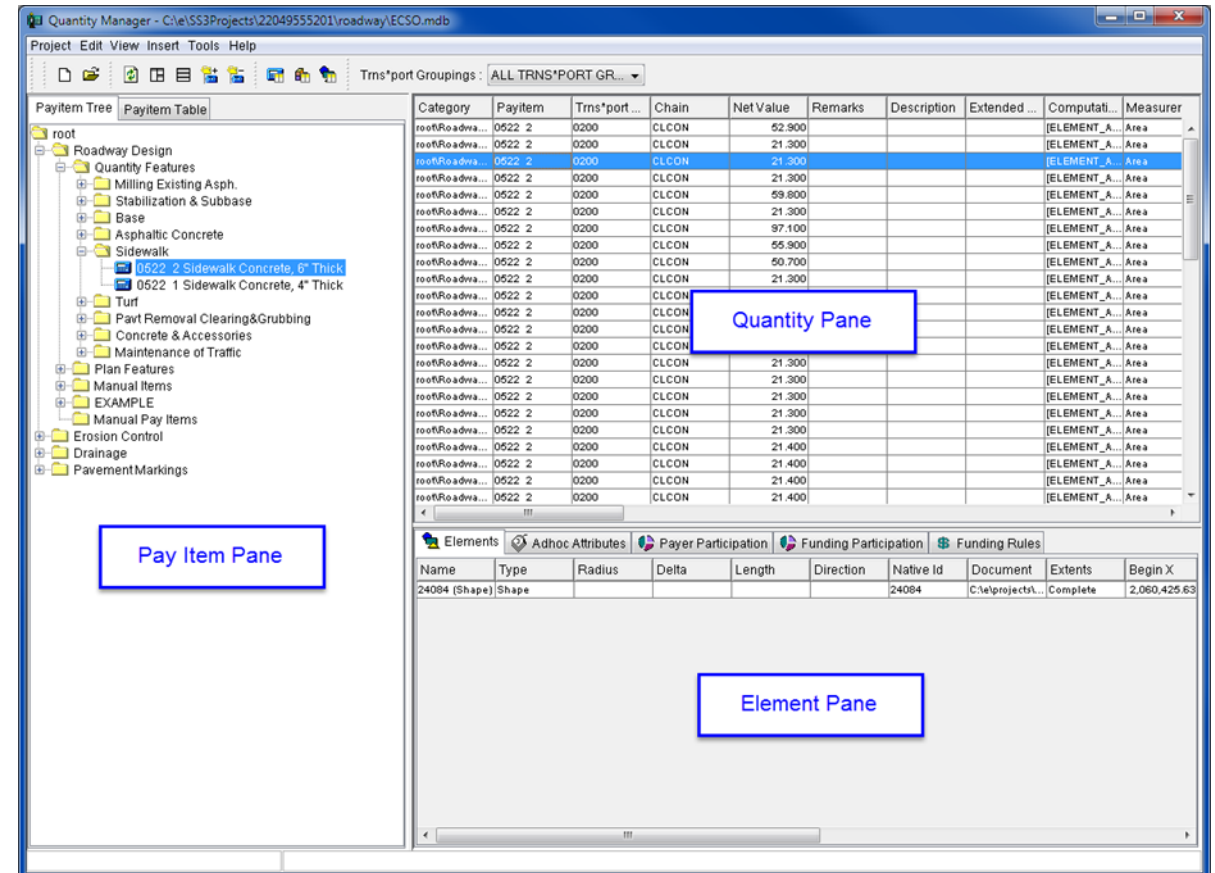
# Quantity Manager

- GEOPAK application used to manage quantities.
- Access options:
  - In the QTDSRD file right click in the MicroStation window and select Quantity Manager from the pop up menu
  - Select GEOPAK > ROAD > Quantity Manager from the MicroStation menu
  - Select the Quantity Manager icon on the FDOT Plans Development > Quantities Task Menu



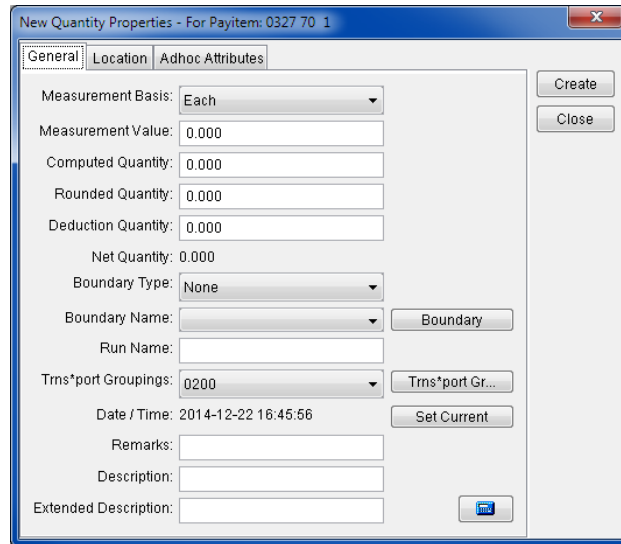
# Quantity Manager

- Right click on the Quantity or Element Pane headers to change the column options
- Right click in the Pay Item Pane to get context sensitive menu options to add, edit and delete categories, items and quantities



# Quantity Manager

- *New Quantity Properties dialog box*



New Quantity Properties - For Payitem: 0327 70 1

General Location Adhoc Attributes

Measurement Basis: Each

Measurement Value: 0.000

Computed Quantity: 0.000

Rounded Quantity: 0.000

Deduction Quantity: 0.000

Net Quantity: 0.000

Boundary Type: None

Boundary Name: Boundary

Run Name:

Trns\*port Groupings: 0200 Trns\*port Gr...

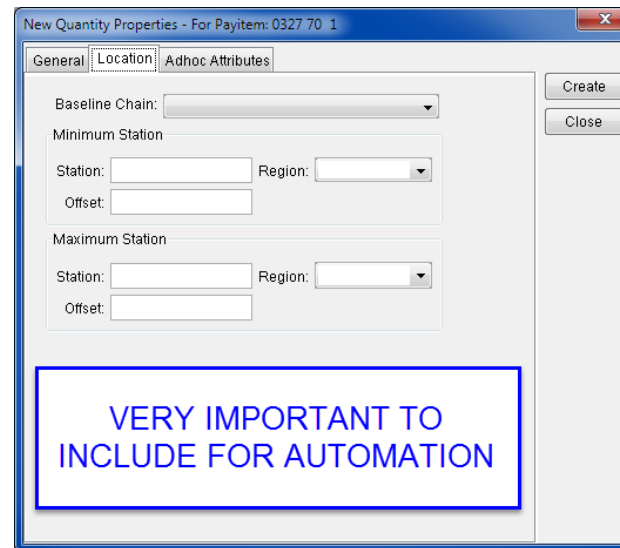
Date / Time: 2014-12-22 16:45:56 Set Current

Remarks:

Description:

Extended Description:

Create Close



New Quantity Properties - For Payitem: 0327 70 1

General Location Adhoc Attributes

Baseline Chain:

Minimum Station

Station: Region:

Offset:

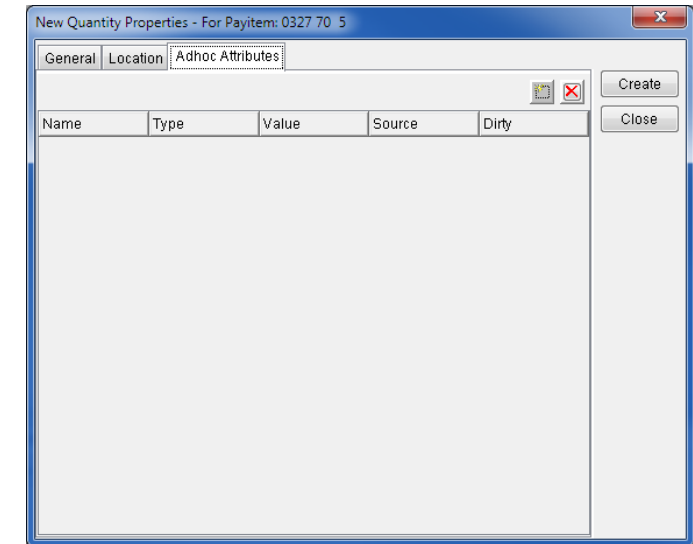
Maximum Station

Station: Region:

Offset:

Create Close

VERY IMPORTANT TO  
INCLUDE FOR AUTOMATION



New Quantity Properties - For Payitem: 0327 70 5

General Location Adhoc Attributes

Name	Type	Value	Source	Dirty
------	------	-------	--------	-------

Create Close



# *Break...*

# Welcome Back...

## Hour 2:

- Review Plan Summary Box Requirements
- Create Summary Boxes through Linked Data Manager
  - Automated
  - Non-Automated
- Generate Reports in Quantity Manager
- Get quantity information to AASHTOWare Project Preconstruction through Designer Interface
- Access Web Gate Reports to get Project Summary Reports for the Summary of Pay Items
- Create Summary of Pay Items Sheet



# FDOT Standards

- *ALL quantities are to be documented by location on Plan Summary Boxes for Roadway & Structures components.*
- *Plan Summary Boxes are to be located on the Summary of Quantities sheets.*
  - *Plan Set Location*
    - *Roadway - keep in same order sequence behind the Typical Section sheets*
    - *Structures - Directly behind the Summary of Pay Items in the General Bridge section (or behind the Key Sheet if no Summary of Pay Items sheet)*
  - *File Name*
    - *Roadway - SUMQRD\*\**
    - *Structures - B#SumofQuantities\**
  - *Sheet Prefix*
    - *Roadway - SQ-*
    - *Structures - BQ#-*



Each Bridge will have a separate Summary of Structural Quantities sheet (or sheets). Number the Summary of Structural Quantities sheets BQ#-#. Example: if there are general bridge pay items (mobilization MOT etc) the sheet will be the first summary of structural quantities sheet and the sheet number will be BQ-1. The summary of quantities for bridge one will follow; sheet number(s) BQ1-1, BQ1-2 etc., followed by bridge 2; sheet number BQ2-1, BQ2-2 etc..



# FDOT Standards

- *Other components (i.e. Signing & Pavement Markings, Signalization, Lighting, etc.) are to use Tabulation of Quantities sheets.*
  - *DGN file goes in the DISCIPLINE directory.*
- *Drainage systems are to be documented on the Summary of Drainage Structures sheets same as they have always been handled.*
  - *Do NOT add pay item numbers.*
  - *Incidental drainage items to a project can be documented on the Summary of Miscellaneous Drainage Items.*
    - *Intended for projects with Miscellaneous Drainage Items or on projects with minimal drainage work, i.e. replacing broken inlet tops or moving structures to accommodate added turn lanes, etc.*
    - *Do NOT include items on this box that are included on the Summary of Drainage Structures sheets.*



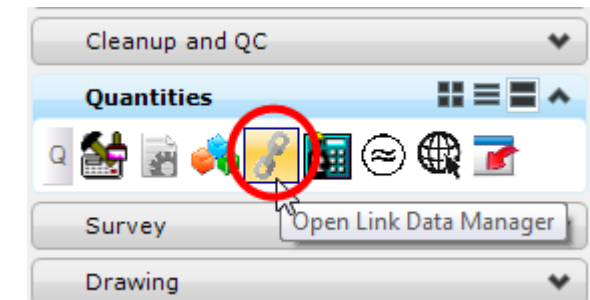
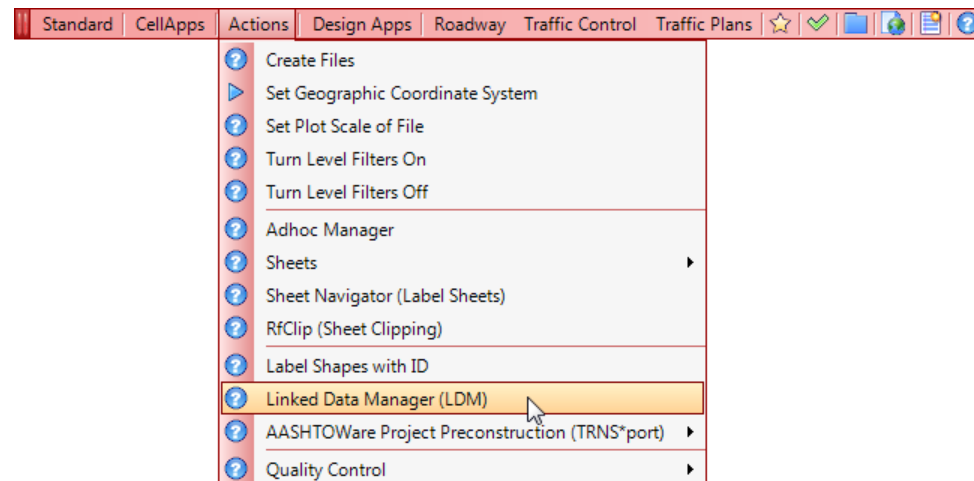
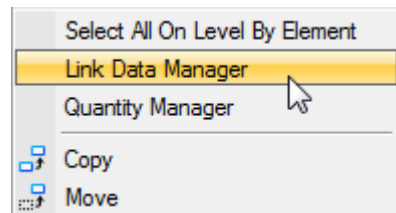
# FDOT Standards

- A listing of standard summary boxes is located in Chapter 8 of the BOE.
  - <http://www.dot.state.fl.us/programmanagement/Estimates/BasisofEstimates/BOEManual/Files/Chapter08SummaryBoxes.pdf>
  - Now contains links within the document to navigate to example summary boxes.
- Do NOT modify the title of the Summary Boxes.
- Do NOT create non-standard boxes or modify current summary boxes with Non-Standard columns or rows.



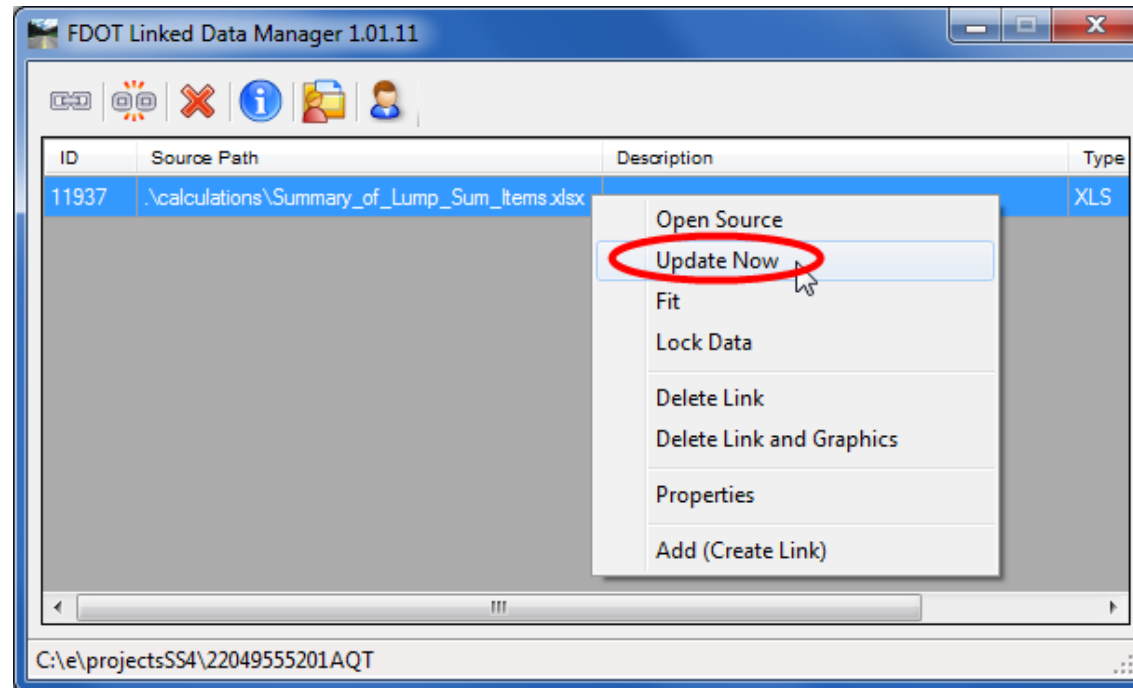
# Linked Data Manager (LDM)

- *FDOT tool that uses Excel templates to generate Plan Summary Boxes.*
- *Creates a link between the Excel file and the MicroStation dgn file for easy updates.*
- *Access through*
  - *Right click menu (in SUMQRD file)*
  - *FDOT Menu > Actions > Linked Data Manager*
  - *FDOT Plans Development task menu > Quantities*



# Linked Data Manager (LDM)

- Always make changes to spreadsheet, save and then right click on the link in the list and choose Update Now.



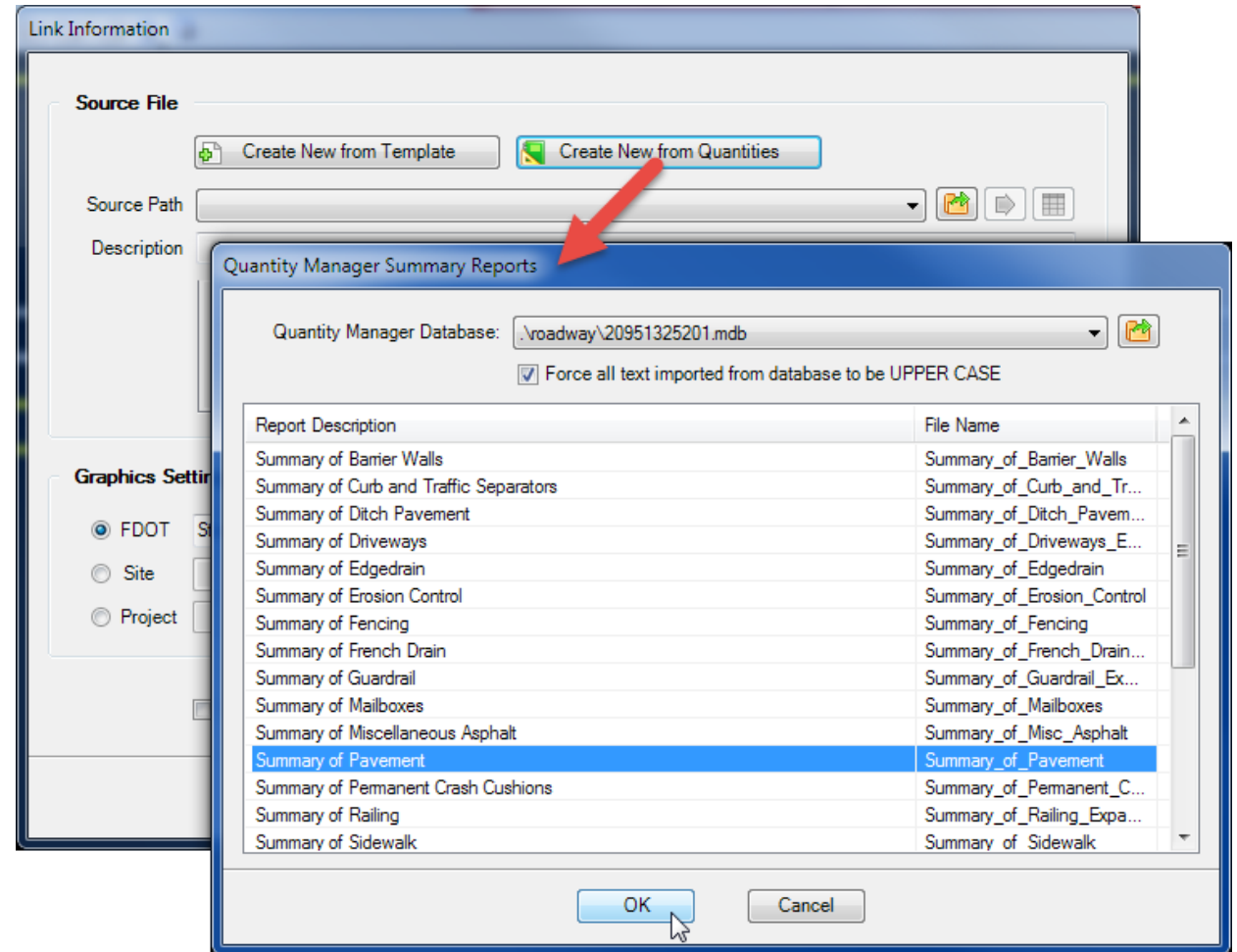
Note: this is a ONE WAY process. Changes made in MicroStation cannot be updated to Excel.

# *Linked Data Manager (LDM)*

- *Formatting in MicroStation is controlled through Excel files.*
  - *FDOT templates have already been formatted for use.*
  - *Columns and rows may be adjusted or hidden in Excel and change is reflected in MicroStation when link is updated.*
  - *Columns may be deleted when not used. However do NOT delete the Construction Remarks or "F" columns.*
  - *When copying data into the template files, make sure to use the "Values Only" option to paste.*

# Linked Data Manager (LDM)

- Automating Plan Summary Boxes
  - When creating a link use the Create New from Quantities option.
  - Select the QM database (\*.mdb)
  - Use the toggle option to create the box using all upper case.
  - Select the Summary to be created
  - Save the file to the Calculations directory of the project



# Linked Data Manager (LDM)

- Automating Plan Summary Boxes
  - Set up the link settings and select OK to place the sheets and links

Link Information

Source File

Create New from Template Create New from Quantities

Source Path: .\calculations\Summary\_of\_Pavement.xlsx

Description:

Quantity Report

☒ Place Title Block

Header Rows: 2 Cell Library: roadway.cel Cell Offset X: 0.2

Table Array X: 18 Cell Name: shp1 Cell Offset Y: 9.4

Graphics Settings

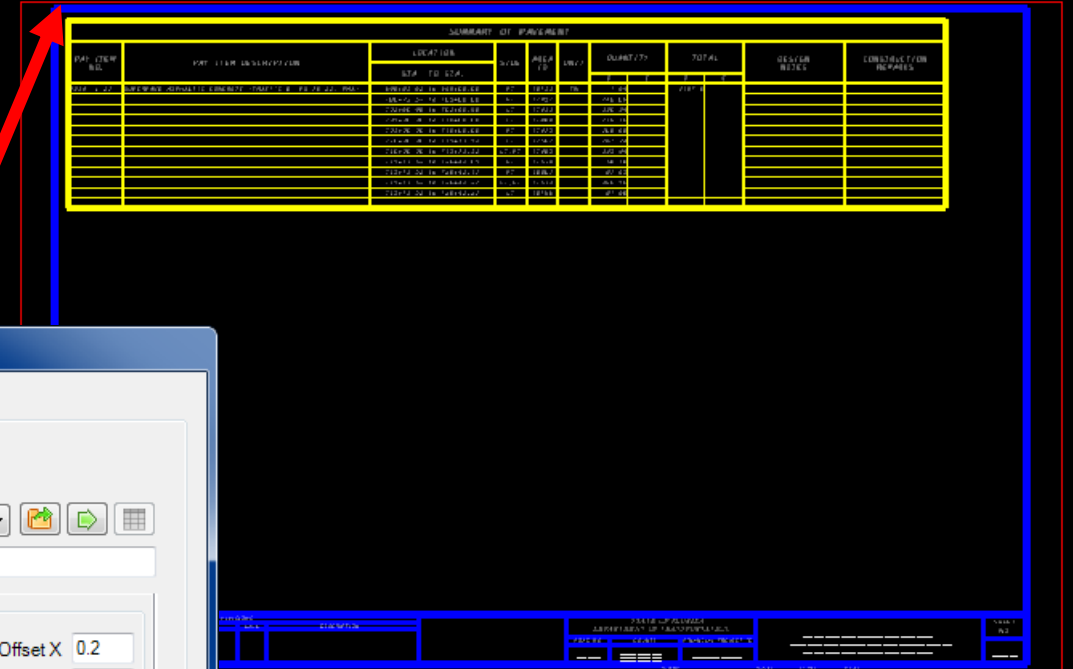
☒ FDOT Standard

☐ Site

☐ Project

☐ Use Drawing Scale ☒ Update Graphics on File Open ☐ Lock Graphics ☐ Use Print Area

OK Cancel



ITEM	ITEM DESCRIPTION	LOCATION		AREA	UNIT	QUANTITY	TOTAL	DESIGN NOTES	CONSTRUCTION NOTES
		STA	TO STA						
100	100	100	100	100	100	100	100		
101	101	101	101	101	101	101	101		
102	102	102	102	102	102	102	102		
103	103	103	103	103	103	103	103		
104	104	104	104	104	104	104	104		
105	105	105	105	105	105	105	105		
106	106	106	106	106	106	106	106		
107	107	107	107	107	107	107	107		
108	108	108	108	108	108	108	108		
109	109	109	109	109	109	109	109		
110	110	110	110	110	110	110	110		
111	111	111	111	111	111	111	111		
112	112	112	112	112	112	112	112		
113	113	113	113	113	113	113	113		
114	114	114	114	114	114	114	114		
115	115	115	115	115	115	115	115		
116	116	116	116	116	116	116	116		
117	117	117	117	117	117	117	117		
118	118	118	118	118	118	118	118		
119	119	119	119	119	119	119	119		
120	120	120	120	120	120	120	120		





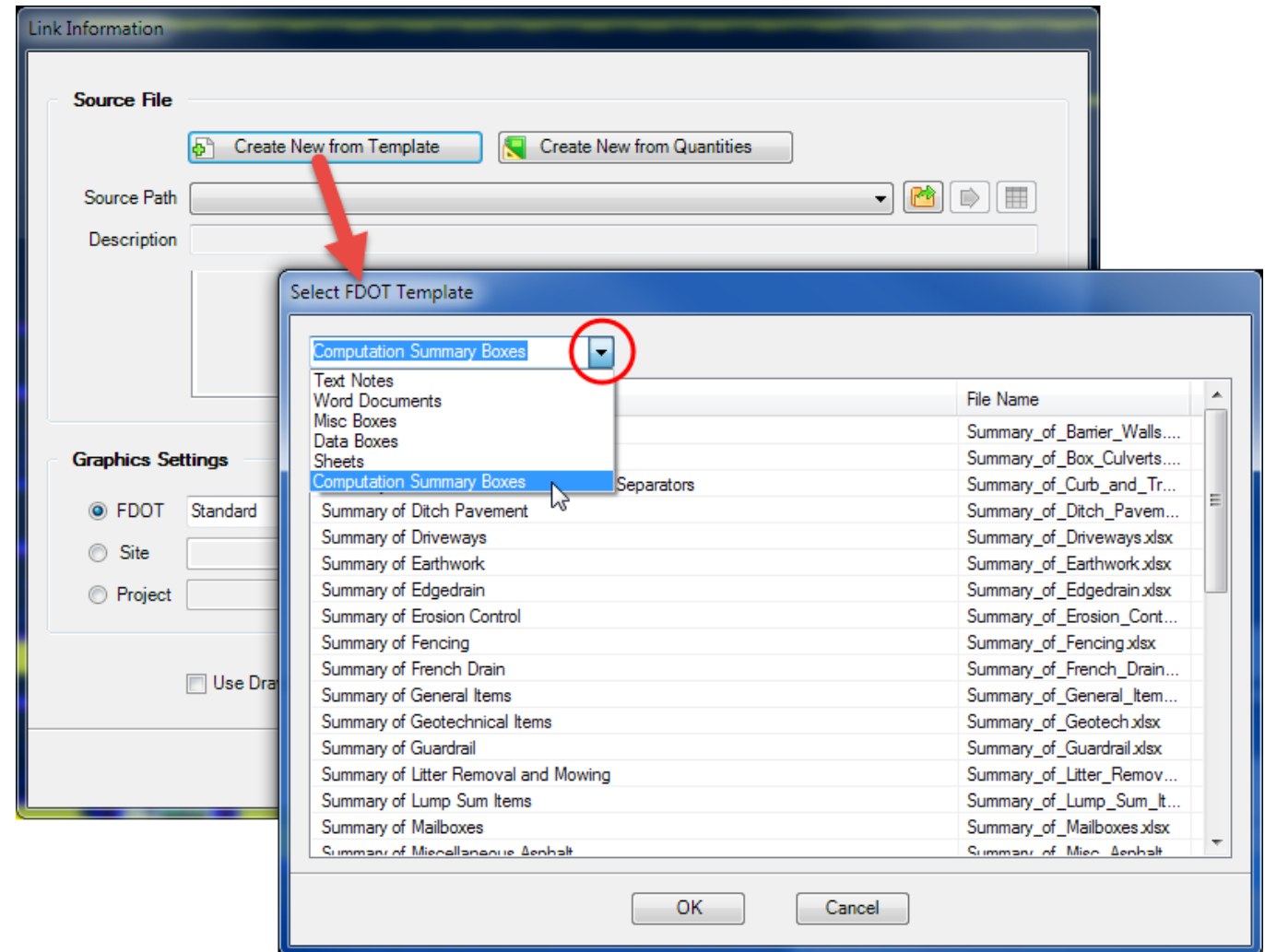
# Linked Data Manager (LDM)

- Automating Plan Summary Boxes
  - Once placed, the plan sheet borders are not linked and can be moved/deleted as needed. Summary boxes can also be moved. There will be a separate link for each summary box placed.
  - If a quantity changes and the boxes need to be updated, the same process can be used. Overwrite the existing file in the Calculations folder and then cancel the placement of the links. Update the existing links for the summary boxes.
    - Note: If there are any customizations in the Excel file (i.e. columns hidden or widened) they will need to be redone in the newly created Excel file.



# Linked Data Manager (LDM)

- *Creating Plan Summary Boxes from Templates*
  - *When creating a link, select Create New From Template for summary boxes that are not included in the automated list.*
  - *Note: The templates are available for ALL summary boxes in the drop down for designers who do not wish to use D&C Manager or Quantity Manager.*



# Linked Data Manager (LDM)

- *Creating Plan Summary Boxes from Templates*
  - *Save the Excel file to the Calculations folder in the project directory.*
  - *Once saved, the Link Information dialog will come back up, select the Box1 worksheet from the dropdown.*
  - *Select the Graphic Settings.*
  - *Select desired link settings.*
  - *Click OK and click in the MS file to place the link and graphics.*

Link Information

Source File

Create New from Template Create New from Quantities

Source Path .\\calculations\\Summary\_of\_Litter\_Removal\_and\_Mowing.xlsx

Description

Excel Settings

Worksheet Box1 Header Rows 2

Width / Height Offset X / Y Use Title Cell

Graphics Settings

FDOT Standard

Site

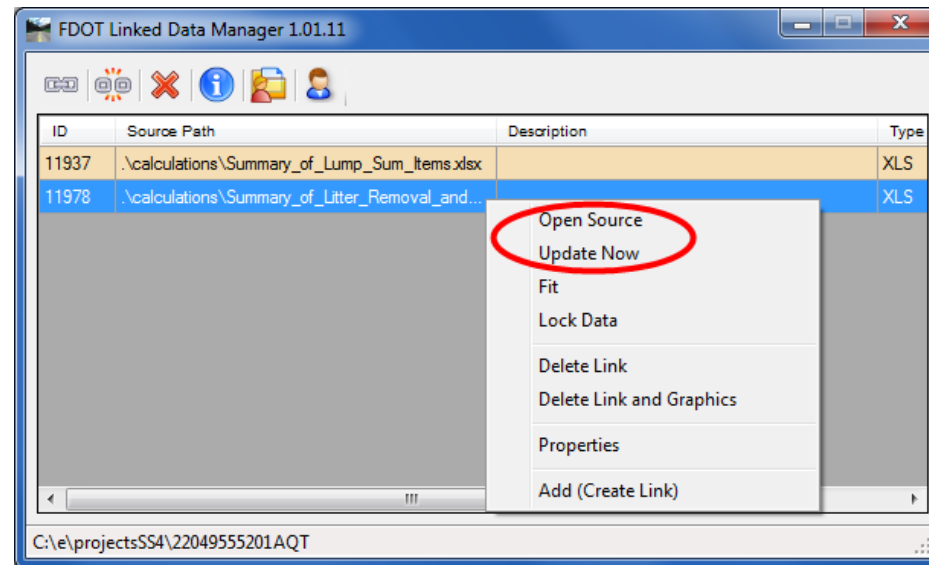
Project

Use Drawing Scale Update Graphics on File Open Lock Graphics Use Print Area

OK Cancel

# Linked Data Manager (LDM)

- *Creating Plan Summary Boxes from Templates*
  - *Right click on the link in the LDM tool box to get the option Open Source.*
  - *Once open, make the necessary changes to the file and save.*
  - *In MS, right click on the link again and select Update Now.*

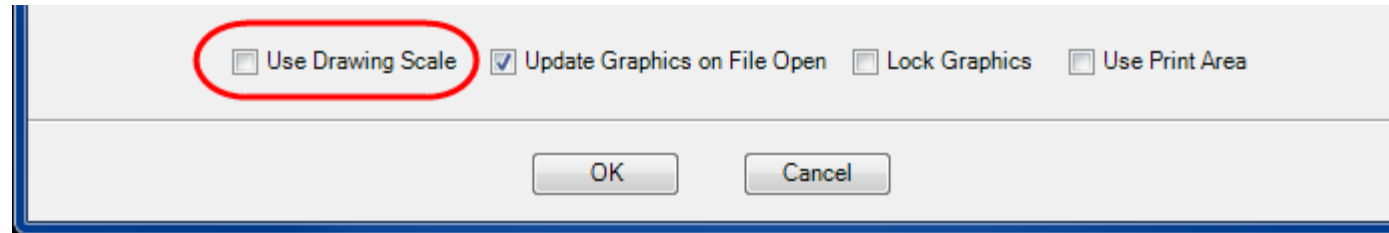


- *Note: Reports generated from QM will help to speed up this process.*



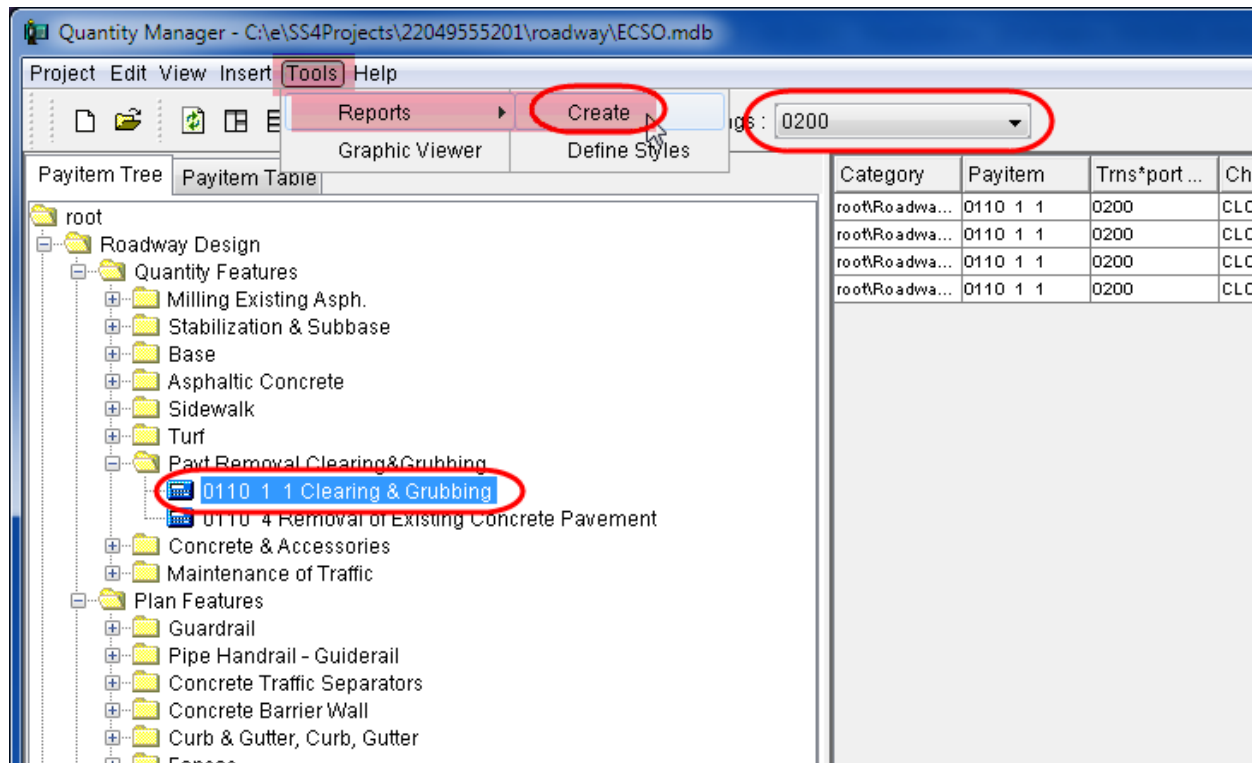
# Linked Data Manager (LDM)

- *Creating Plan Summary Boxes from Templates*
  - *Summary of Structures Quantities*
    - *Place the Plan Sheet at a scale of 12*
    - *Do not turn on the option to use the Drawing Scale*



# Quantity Manager (QM)

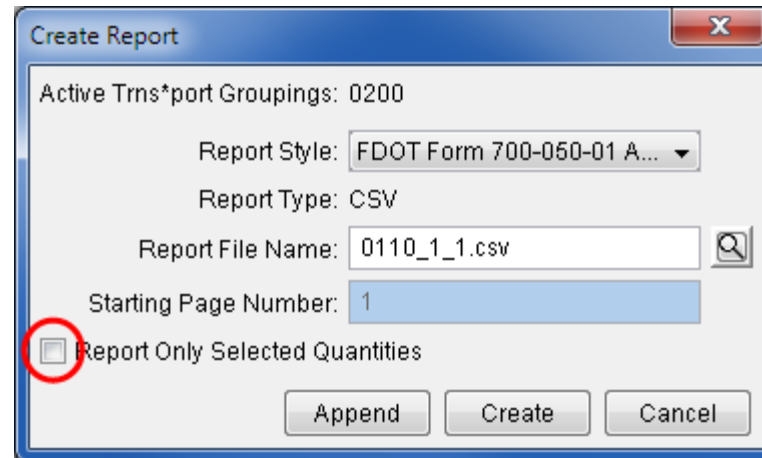
- *Generating Reports*
  - *In QM, set the Transport Grouping setting to the appropriate category (Roadway = 0200)*
  - *Select the desired Pay Item in the Pay Item Pane.*
  - *Select Tools > Reports > Create from the QM menu.*



# Quantity Manager (QM)

- *Generating Reports*

- *On the report menu, select the report for the Area CSV file.*
- *Type in a name for the output.*
- *Click Create. The file will open in Excel.*



- *This file can be used to copy and paste the information into the template file generated through LDM.*
- *When pasting the information into the template, make sure to use the option for Values Only so that the formatting doesn't change.*



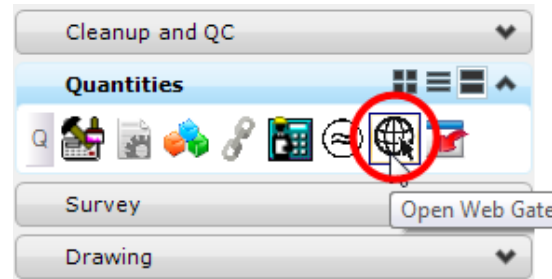
# *QM to Designer Interface (DI) – Workflow*

- 1. Export the Project Header information (xml file) from DI*
- 2. Import the project header info into QM Project Preferences*
- 3. Export the quantities report from QM (xml file)*
- 4. Import the quantities to the project in DI*

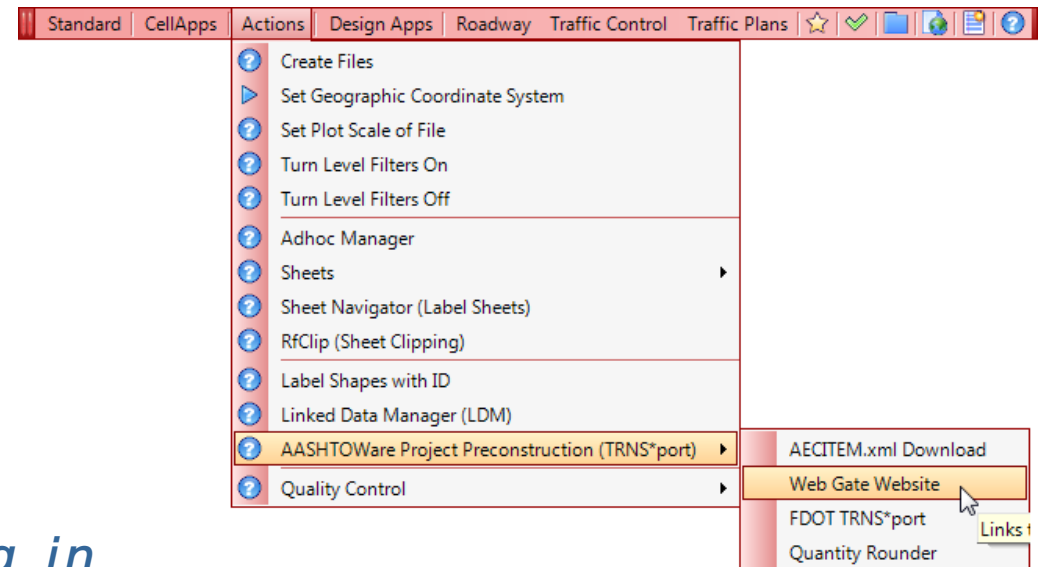
# QM to Designer Interface (DI) – Workflow

## 1. Export the Project Header information (xml file) from DI CADD links available to Web Gate Website

- Quantities Task Menu



- FDOT Actions Menu



Select Designer Interface & log in



# QM to Designer Interface (DI) – Workflow

## 1. Export the Project Header information (xml file) from DI

- Exporting header information can be done in 2 locations...
  - Project List
  - Project Details
    - (Click Update in the Project... column to get to the Project Details)

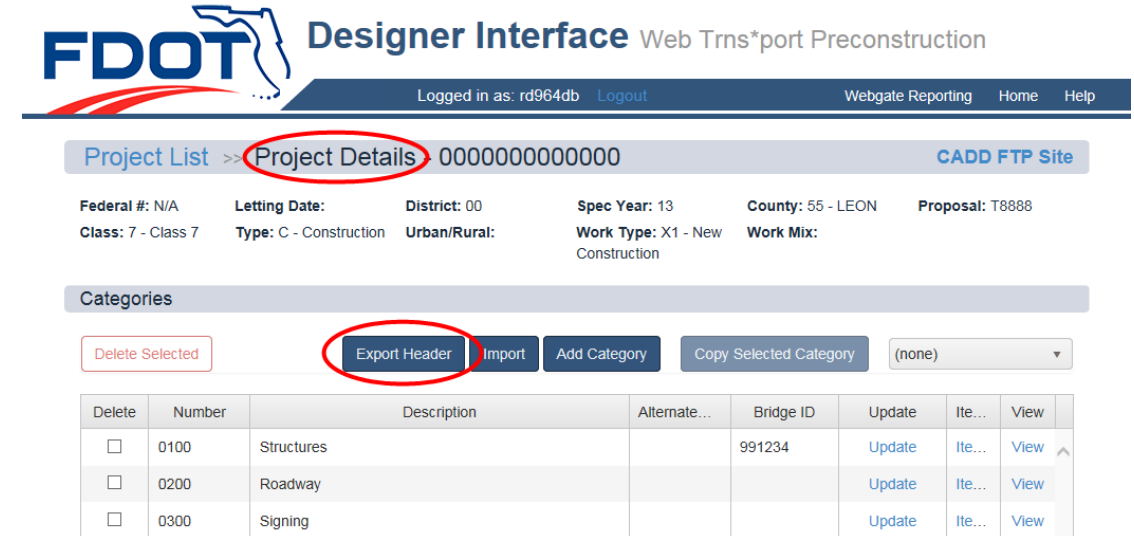


FDOT Designer Interface Web Trns\*port Preconstruction

Logged in as: rd964db Logout Webgate Reporting Home Help

Project List

Project...	Project Number	aecXML Pro...	Description	Letting D...	Unit Sy...	Proposal	Dis
Update	00000000000000	Export Header Import	CADD office testing		English	T8888	



FDOT Designer Interface Web Trns\*port Preconstruction

Logged in as: rd964db Logout Webgate Reporting Home Help

Project List >> Project Details 00000000000000 CADD FTP Site

Federal #: N/A Letting Date: District: 00 Spec Year: 13 County: 55 - LEON Proposal: T8888  
Class: 7 - Class 7 Type: C - Construction Urban/Rural: Work Type: X1 - New Construction Work Mix:

Categories

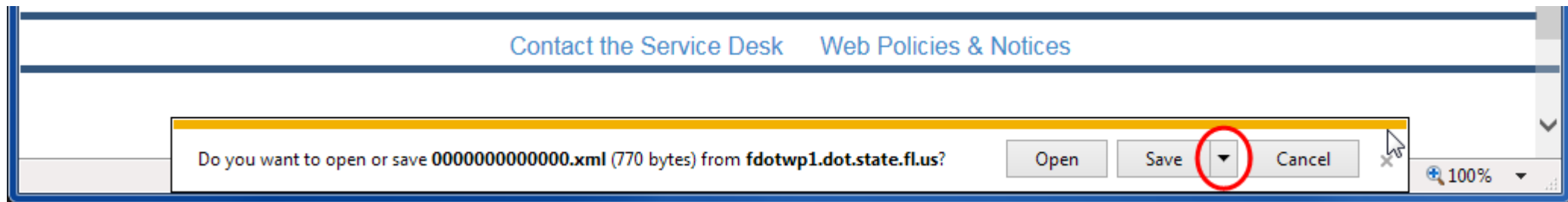
Delete Selected Export Header Import Add Category Copy Selected Category (none)

Delete	Number	Description	Alternate...	Bridge ID	Update	Ite...	View
<input type="checkbox"/>	0100	Structures		991234	Update	Ite...	View
<input type="checkbox"/>	0200	Roadway			Update	Ite...	View
<input type="checkbox"/>	0300	Signing			Update	Ite...	View

- On either screen, select Export Header.

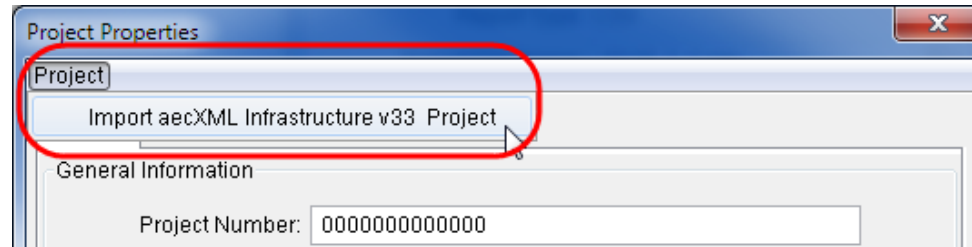
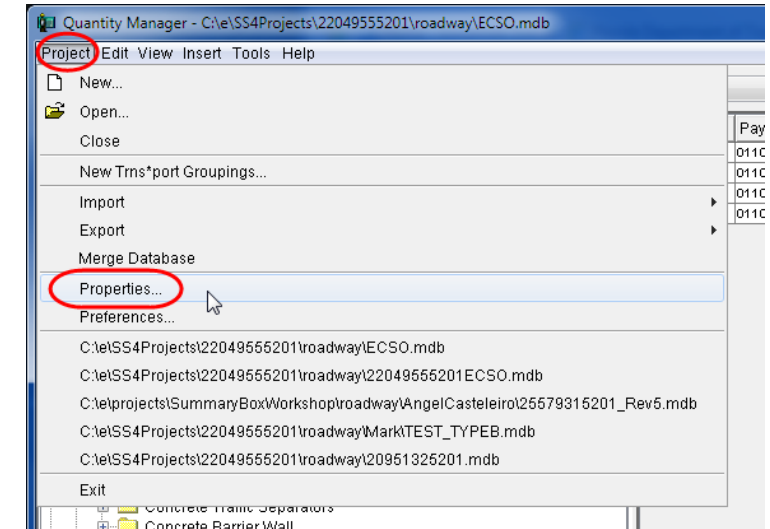
# QM to Designer Interface (DI) – Workflow

1. *Export the Project Header information (xml file) from DI*
  - *Select the drop down option beside the Save option and choose Save As.*
  - *Save the xml to the project discipline directory (i.e. Roadway).*



# QM to Designer Interface (DI) – Workflow

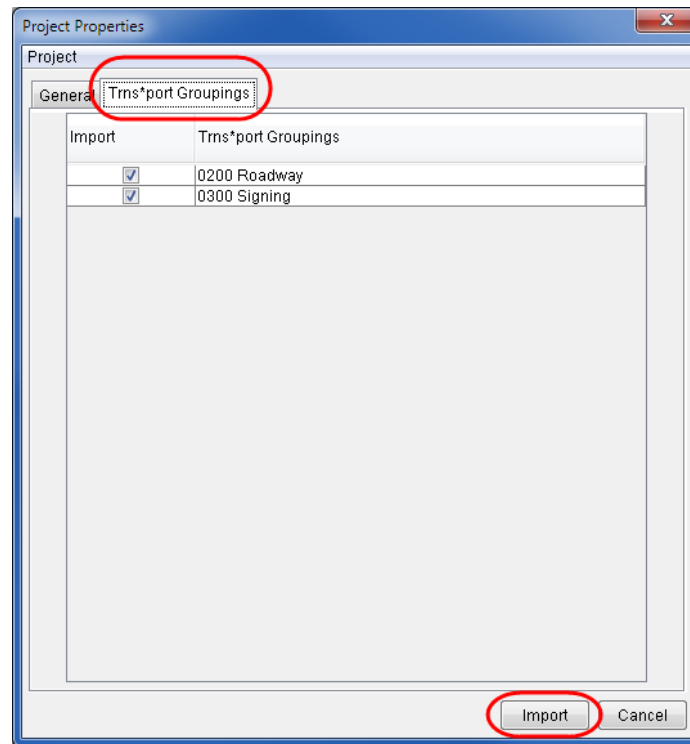
1. *Export the Project Header information (xml file) from DI*
2. *Import the project header info into QM Project Preferences*
  - *In QM, select Project > Properties.*
  - *On Project Properties, select Project > Import aecXML Infrastructure v33 Project*



- *Select the downloaded file select Open.*

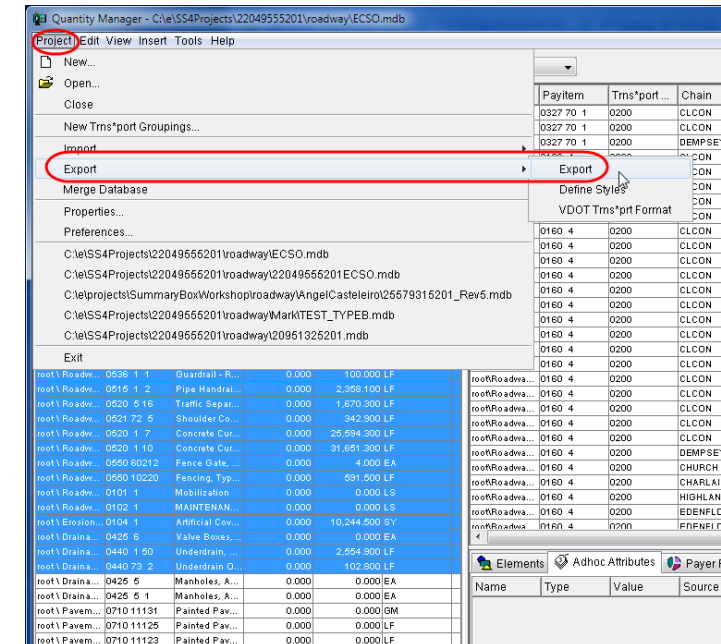
# QM to Designer Interface (DI) – Workflow

1. Export the Project Header information (xml file) from DI
2. Import the project header info into QM Project Preferences
  - The Project Properties dialog opens with a new tab for the Trns\*port Groupings.
  - Select the desired options and then click Import.



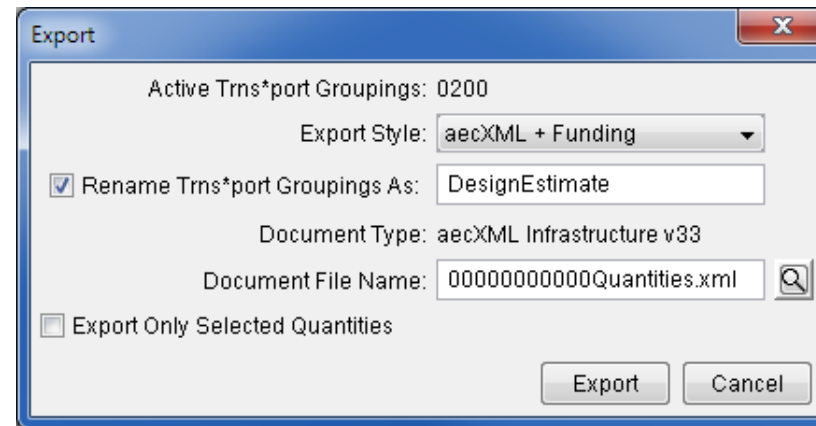
# QM to Designer Interface (DI) – Workflow

1. Export the Project Header information (xml file) from DI
2. Import the project header info into QM Project Preferences
3. Export the quantities report from QM (xml file)
  - Make sure the Trns\*port Grouping is set.
    - 0200 – Roadway
    - 0300 – Signing & Pavement Markings
  - In the Payitem Table view of the Pay Item Pane, select all of the pay items desired to be exported.
  - Select Project >Export > Export.



# QM to Designer Interface (DI) – Workflow

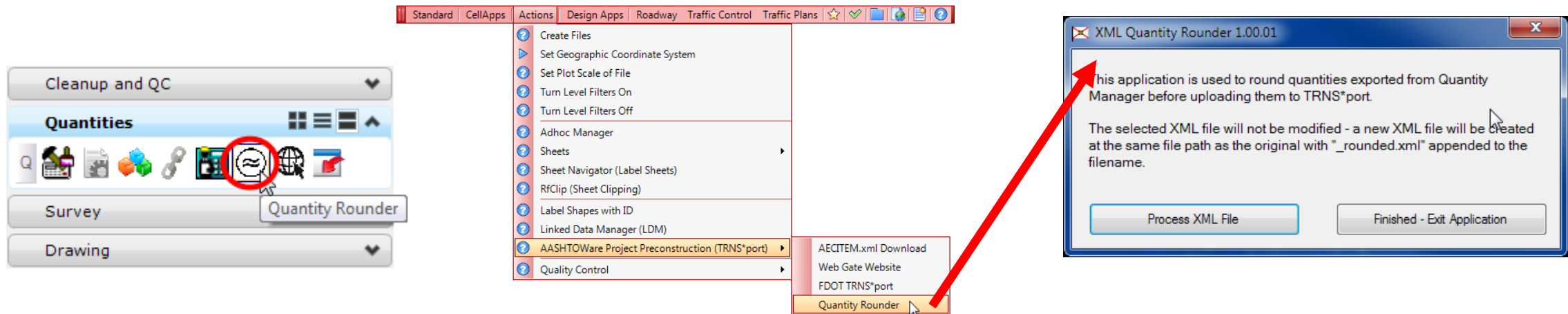
1. *Export the Project Header information (xml file) from DI*
2. *Import the project header info into QM Project Preferences*
3. *Export the quantities report from QM (xml file)*
  - *On the Export dialog, select the Export Style, aecXML + Funding*
  - *Toggle ON the Rename option and set to “DesignEstimate”.*
  - *Type in a name for the xml file generated.*
  - *Click Export.*



- *Click OK on the information dialog about Properties missing. This is normal. The file generated will have all the necessary information.*
- *Click OK on the Export Complete information dialog.*

# QM to Designer Interface (DI) – Workflow

1. Export the Project Header information (xml file) from DI
2. Import the project header info into QM Project Preferences
3. Export the quantities report from QM (xml file)
  - In MS, open the Quantity Rounder tool.
    - Located on the FDOT Plans Development task menu > Quantities
    - OR – on the FDOT Actions Menu



- Click Process XML File and navigate to and select the file exported from Quantity Manager.
- Click OK on the Created file dialog and then click Finished – Exit Application.

# QM to Designer Interface (DI) – Workflow

1. Export the Project Header information (xml file) from DI
2. Import the project header info into QM Project Preferences
3. Export the quantities report from QM (xml file)
4. Import the quantities to the project in DI
  - On either the Project List or Project Details view, click on Import.

Project List >> Project Details - 00000000000000 CADD FTP Site

Federal #: N/A    Letting Date:    District: 00    Spec Year: 13    County: 55 - LEON    Proposal:     
Class: 7 - Class 7    Type: C - Construction    Urban/Rural:    Work Type: X1 - New Construction    Work Mix:

Categories

Delete Selected    Export Header    **Import**    Add Category    Copy Selected Category    (none) ▼

Delete	Number	Description	Alternate...	Bridge ID	Update	Ite...	View
<input type="checkbox"/>	0200	Roadway	null	null	Update	Ite...	View
<input type="checkbox"/>	0300	Signing	null	null	Update	Ite...	View

- Click on Select Files... and then navigate to the file exported and then rounded from the project directory. (It will have \_Rounded appended to the file name.)
- Once selected click on Upload file.



# Quantities – QM to Trnsport – Workflow

1. Export the Project Header information (xml file) from DI
2. Import the project header info into QM Project Preferences
3. Export the quantities report from QM (xml file)
4. Import the quantities to the project in DI
  - The results will show up on the screen. This is ALL or nothing.
  - Green – Load Successful

Project Load Log Messages		
	Data validation successful.	Project successfully loaded.
INSERT Project Item	Project: 0000000000000 Category: 0200 Item: 0110 4 2	
INSERT Project Item	Project: 0000000000000 Category: 0200 Item: 0425 5 1	
INSERT Project Item	Project: 0000000000000 Category: 0200 Item: 0425 5 1	
UPDATE Project Item	Project: 0000000000000 Category: 0200 Item: 0327 70 1	
UPDATE Project Item	Project: 0000000000000 Category: 0200 Item: 0327 70 1	

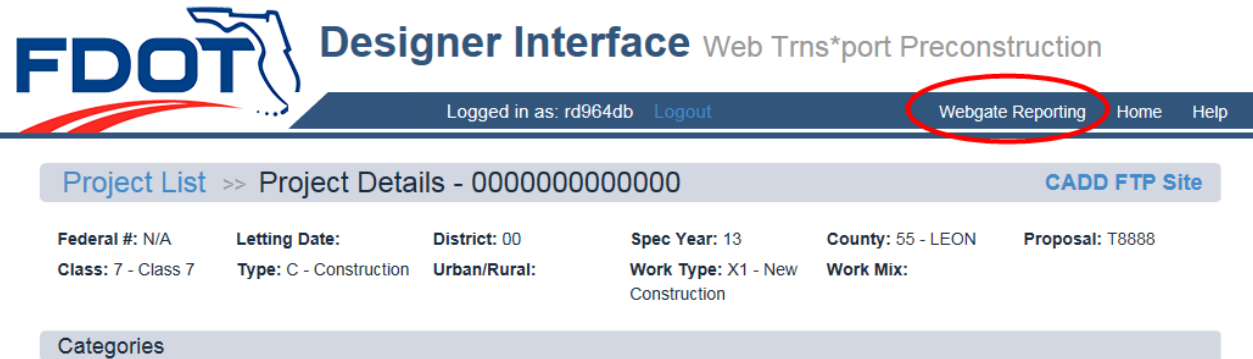
- Red – Errors (nothing loaded)

Type	Info	Data Validation Errors
Project Category	Project: Category: DesignEstimate Item: Quantity:	Invalid category number. Must be numeric (E16)



# Summary of Pay Items – Workflow

- Access Webgate Reporting
  - From DI



**FDOT** Designer Interface Web Trns\*port Preconstruction

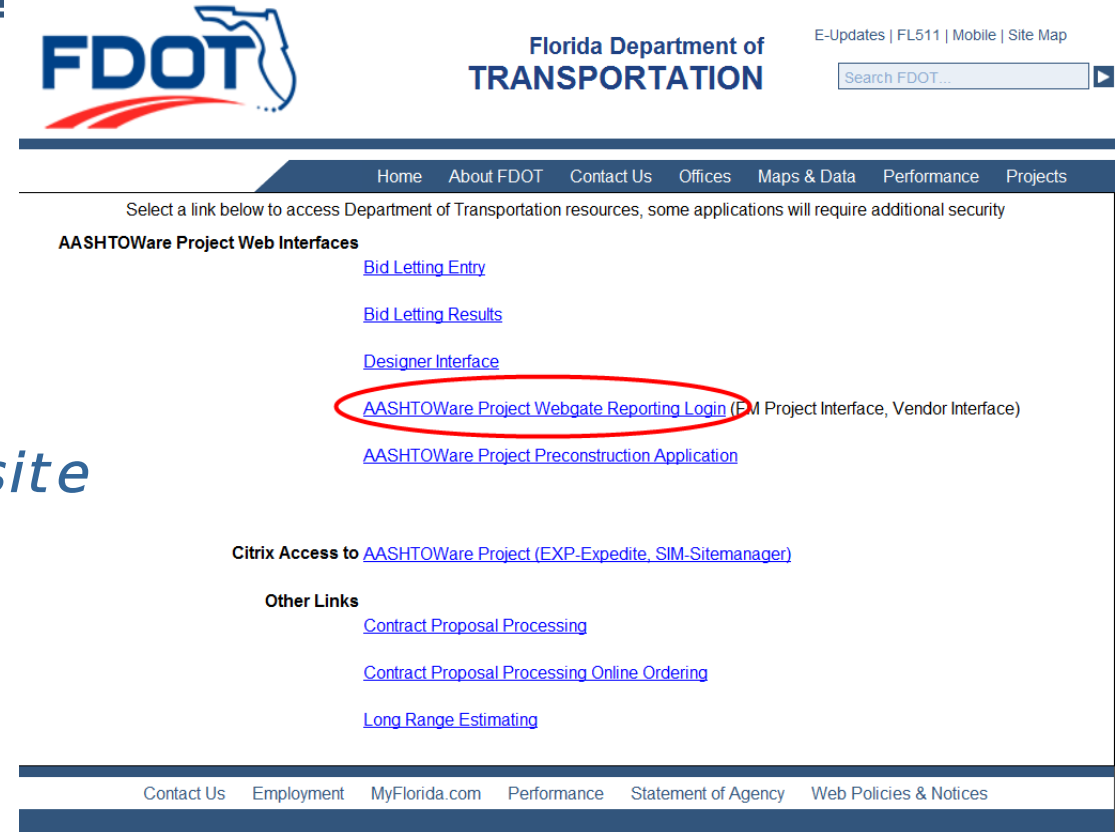
Logged in as: rd964db Logout **Webgate Reporting** Home Help

[Project List](#) >> Project Details - 00000000000000 [CADD FTP Site](#)

Federal #: N/A	Letting Date:	District: 00	Spec Year: 13	County: 55 - LEON	Proposal: T8888
Class: 7 - Class 7	Type: C - Construction	Urban/Rural:	Work Type: X1 - New Construction	Work Mix:	

Categories

- From Web Gate site



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- [Bid Letting Results](#)
- [Designer Interface](#)
- [AASHTOWare Project Webgate Reporting Login](#)** (EM Project Interface, Vendor Interface)
- [AASHTOWare Project Preconstruction Application](#)

Citrix Access to [AASHTOWare Project \(EXP-Expedite, SIM-Sitemanager\)](#)


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- [Contract Proposal Processing Online Ordering](#)
- [Long Range Estimating](#)

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# Summary of Pay Items – Workflow

- *Select General Reports > Summary of Pay Items Report*

**Florida Department of Transportation**

Session Time remaining:  
00:19:02

AASHTOWare Project Webgate Reporting

Denise Broom | [Help](#) | [Logout](#)

Summary of Pay Items

▶ Construction Sitemanager

▶ Designers, Estimators, and Reviewers

▶ Equal Opportunity

▼ **General Reports**

▶ Item Average Unit Cost by Item Number Report

▶ Item Average Unit Cost by Item Range Report

▶ Contract Project Directory Report

▶ Crosswalk Report

▶ Master PayItem List Report

▶ Proposal Section and Line Numbers Report

▶ **Summary of Pay Items Report**

▶ Landscape Reports

▶ Maintenance Sitemanager

This report produces a summary of pay items and quantities for a selected project. If proposal exist the report will be of the proposal level, if no proposal the report will be of the project level. Either level, project or proposal, may be used for phase reviews; the proposal summary must be used for final plans. Identifies the participating and non-participating quantity for each pay item. Use the button "Auto-Generate Proposal Sections" to assign proposal section numbers and proposal item line numbers if some items are not ordered correctly in report or XML file.

[Click to view video for the CADD Workflow for Quantities with Designer Interface.](#)

Note: Scroll to the bottom of the table of contents for how to create the Summary of Pay Items Sheets.

Select/Enter Parameter Information: Required fields marked with asterisk(\*)

Select Project: 25308617204 ▼

Auto-Generate Proposal Sections

Report Type:

☒ Report File


☐ CADD File

Submit

Reset

# Summary of Pay Items – Workflow

- *Help link – CADD Posted Webinar*
- *NEW!!! – Auto-Generate Proposal Sections*

**Florida Department of Transportation**  
AASHTOWare Project Webgate Reporting

Session Time remaining:  
00:19:02

Denise Broom | [Help](#) | [Logout](#)

---

Summary of Pay Items

▶ **Construction Sitemanager**

▶ **Designers, Estimators, and Reviewers**

▶ **Equal Opportunity**

▼ **General Reports**

▶ Item Average Unit Cost by Item Number Report

▶ Item Average Unit Cost by Item Range Report

▶ Contract Project Directory Report

▶ Crosswalk Report

▶ Master PayItem List Report

▶ Proposal Section and Line Numbers Report

▶ Summary of Pay Items Report

▶ **Landscape Reports**

▶ **Maintenance Sitemanager**

This report produces a summary of pay items and quantities for a selected project. If proposal exist the report will be of the proposal level, if no proposal the report will be of the project level. Either level, project or proposal, may be used for phase reviews; the proposal summary must be used for final plans. Identifies the participating and non-participating quantity for each pay item. Use the button "Auto-Generate Proposal Sections" to assign proposal section numbers and proposal item line numbers if some items are not ordered correctly in report or XML file.

[Click to view video for the CADD Workflow for Quantities with Designer Interface.](#)

Note: Scroll to the bottom of the table of contents for how to create the Summary of Pay Items Sheets.

Select/Enter Parameter Information: Required fields marked with asterisk(\*)

Select Project:

25308617204

Auto-Generate Proposal Sections

Report Type:

☒ Report File

☐ CADD File

Submit

Reset

# Summary of Pay Items – Workflow

- *Select the Project*
- *Select Report Type: CADD File*
- *Click Submit*
- *Select the Save As option*
  - *Rename the file if the Project Header file is named the same as the default.*

**FDOT** Florida Department of Transportation  
AASHTOWare Project Webgate Reporting  
Session Time remaining: 00:17:13  
Denise Broom | [Help](#) | [Logout](#)

### Summary of Pay Items

This report produces a summary of pay items and quantities for a selected project. If proposal exist the report will be of the proposal level, if no proposal the report will be of the project level. Either level, project or proposal, may be used for phase reviews; the proposal summary must be used for final plans. Identifies the participating and non-participating quantity for each pay item. Use the button "Auto-Generate Proposal Sections" to assign proposal section numbers and proposal item line numbers if some items are not ordered correctly in report or XML file.

[Click to view video for the CADD Workflow for Quantities with Designer Interface.](#)  
Note: Scroll to the bottom of the table of contents for how to create the Summary of Pay Items Sheets.

Select/Enter Parameter Information: Required fields marked with asterisk(\*)

Select Project: 00000000000000 Auto-Generate Proposal Sections

Report Type: ☐ Report File ☒ CADD File

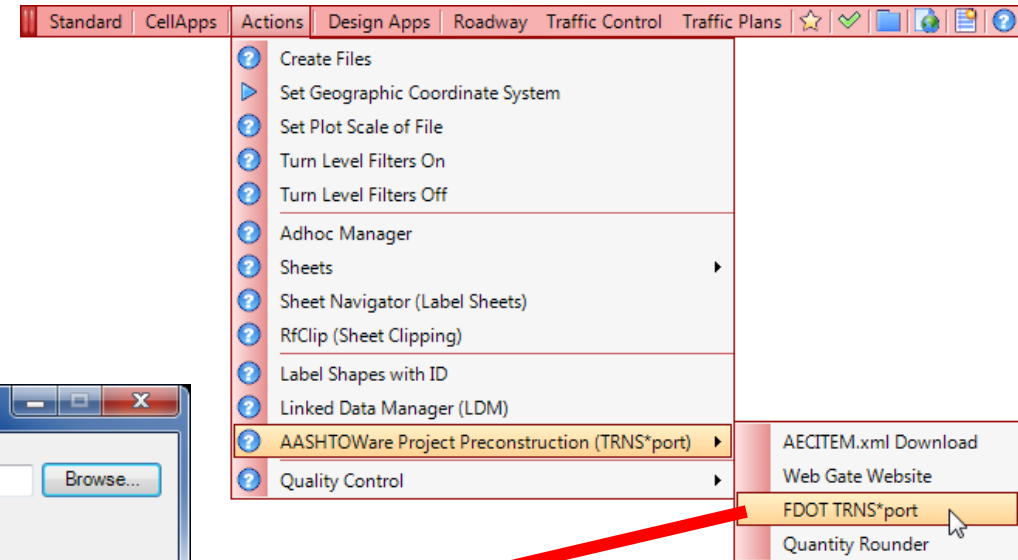
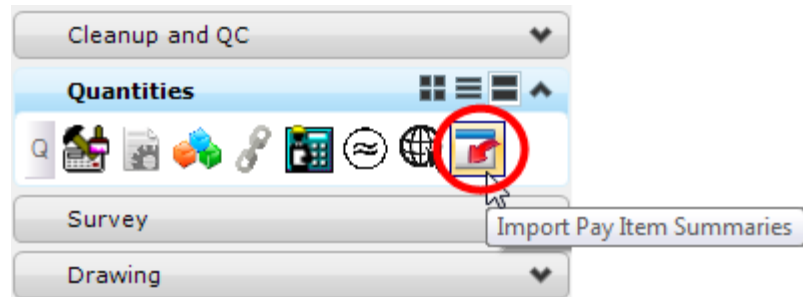
Submit Reset

Do you want to open or save 00000000000000.xml from fdotwp1.dot.state.fl.us?

Open Save Cancel

# Summary of Pay Items – Workflow

- In MS, select the FDOT Trnsport Quantities tool*

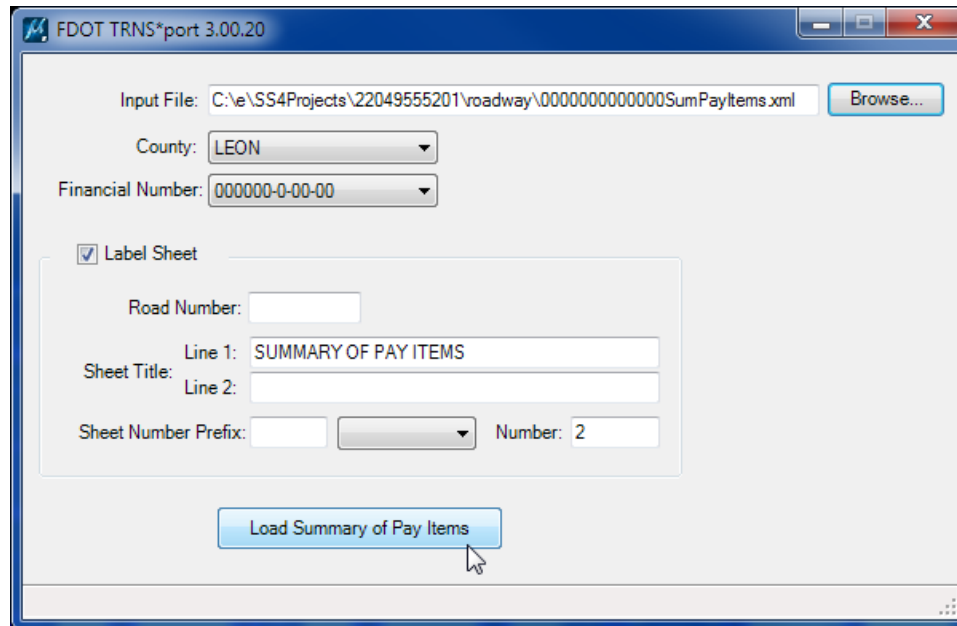


A screenshot of the 'FDOT TRNS\*port 3.00.20' dialog box. The dialog box contains the following fields and controls:

- Input File:  Browse...
- County:
- Financial Number:
- ☒ Label Sheet
- Road Number:
- Line 1:
- Line 2:
- Sheet Title:
- Sheet Number Prefix:   Number: 2
- Load Summary of Pay Items

# Summary of Pay Items – Workflow

- *Select the Browse button and navigate to the save Summary of Pay Items report xml file.*
- *County and Financial Number are pulled in from the XML file.*
- *Label Sheet is toggled on by default.*
  - *Optional*
- *Click Load Summary of Pay Items*



The screenshot shows the 'FDOT TRNS\*port 3.00.20' application window. The 'Input File' field is set to 'C:\e\SS4Projects\22049555201\roadway\00000000000000SumPayItems.xml' with a 'Browse...' button. The 'County' dropdown is set to 'LEON' and the 'Financial Number' dropdown is set to '000000-0-00-00'. The 'Label Sheet' checkbox is checked. The 'Road Number' field is empty. The 'Sheet Title' section has 'Line 1' set to 'SUMMARY OF PAY ITEMS' and 'Line 2' is empty. The 'Sheet Number Prefix' dropdown is empty and the 'Number' field is set to '2'. A 'Load Summary of Pay Items' button is at the bottom, with a mouse cursor hovering over it.



# Questions???

*Thank-you for joining today's session.*

*Need some HELP? Contact me...*

*(850) 414-4751*

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*OR: [ecso.support@dot.state.fl.us](mailto:ecso.support@dot.state.fl.us)*

*<http://www.dot.state.fl.us/ecso>*

*FDOT CADD Support Forum On-line*

*[http://communities.bentley.com/communities/user\\_communities/fdot\\_cadd\\_support/default.aspx](http://communities.bentley.com/communities/user_communities/fdot_cadd_support/default.aspx)*